

U.S. EPA Science Advisory Board

Environmental Economics Advisory Committee

FY 2004 Member Biosketches

Environmental Economics Advisory Committee

Alberini, Anna

University of Maryland

Dr. Anna Alberini is an Associate Professor of Economics in the Agricultural and Resource Economics Department of the University of Maryland. Dr. Alberini has a Ph.D. in Economics from the University of California, San Diego, Department of Economics. Her dissertation was on "The Informational Content of Binary Responses." Dr. Alberini's research interests are in Environmental Economics, and specifically in the Valuation of Natural and Non-market Resources; Estimation and Valuation of Health Effects of Environmental Quality; Mobile Sources of Emissions; Transportation Policy; Hazardous Waste Policy, and Econometrics and Statistics. She is currently a co-editor of the Journal of Environmental Economics and Management, and is coordinator of the Sustainability Indicators and Environmental Valuation Program (SIEV) for the Fondazione ENI Enrico Mattei. Her grants include: a) a grant from the US EPA to survey real estate developers about economic and regulatory incentives for the redevelopment of brownfields (about \$300,000), 2002-2004; b) a cooperative agreement with EPA to examine the econometric robustness of estimates of the value of a statistical life (about \$100,000), 2001-2003; c) a grant of 75,000 euro from the Fondazione ENI Enrico Mattei, Italy, to survey residents of the city of Venice, Italy, about sustainable regeneration projects of a historical site in Venice, 2002-2004; d) grants for a total of 300,000 euro from CORILA, Venice, to study contaminated site policies and survey developers and residents about cleanup, and to survey businesses and residents about sustainable tourism in the Lagoon of Venice, 2004-2006; e) grants for a total of 200,000 euro to study contaminated site policies and survey developers about cleanup, and to survey residents of the region around Venice and with the US Department of Agriculture entitled "Modeling Respondent Confidence in the Grassland Birds Survey," \$20,000; g) a grant from NSF/EPA, 1998-99, to support further research on willingness to pay for mortality risk reductions using the contingent valuation approach, \$273,000; h) a research contract with the Regional Air Quality Council, Denver, \$11,000, to examine the cost of alternative strategies for improving visibility in the metro Denver area; d) a cooperative agreement with the US Forest Service entitled "Valuing Biodiversity: The Issue of Invasive Species," \$25,000; i) a grant from NSF/EPA, 1995-96, to support research on the valuation of mortality risk reductions using the contingent valuation approach; l) a grant from the Office of Exploratory Research of E.P.A., 1995-1996, to support research on ownership and use of older vehicles; a grant from the Office of Exploratory Research of E.P.A., 1993-1995, to support research on the health effects of air pollution (using epidemiological data) and the value of reduced morbidity (using contingent valuation survey data) and a grant from Fondazione E.N.I. Mattei, Milan, Italy, 1993, to support research on the design of contingent valuation surveys. In addition, she is currently managing the cost-benefit portion of the research project cCASHh, funded by the European Commission and involving the World Health Organization, Rome Office, and many European universities and research organizations. This project focuses on the human health effects of climate change.

Burtraw, Dallas

Resources for the Future

Dr. Burtraw is a Senior Fellow at Resources for the Future. He holds a Ph.D. in Economics and a Master in Public Policy from the University of Michigan. He currently serves on the National Research Council, Committee on Air Quality Management in the United States. Dr. Burtraw's areas of expertise include: air pollution, cost-benefit analysis, electricity restructuring, regulatory design, and public finance. His research interests include the restructuring of the electric utility market, the social costs of environmental pollution, benefit-cost analyses of environmental regulation, and the design of incentive-based environmental policies. His current projects include the study of integrated approaches to pollutant control in the electricity sector and the valuation of natural resource improvements in the Adirondacks. Recently, Dr. Burtraw analyzed the cost-effectiveness of various designs for NOX emission trading in the eastern states and of the design for a carbon emission trading program in the electricity sector. He also investigated the effects on electric utilities of the sulfur dioxide emissions-permit trading program legislated under the 1990 Amendments to the Clean Air Act, and evaluated the benefits of emission reductions resulting from the 1990 Amendments. Current research support includes the New York State Energy Research and Development Authority, the Japanese government Economic and Social Research Institute and the EPA Star Grant program (11/2003).

Cropper, Maureen L. Chair

The World Bank

Maureen L. Cropper is a Professor of Economics at the University of Maryland, a Lead Economist at the World Bank and a University Fellow at Resources for the Future. She received a B.A. in Economics from Bryn Mawr College (1969) and a Ph.D. in Economics from Cornell University (1973). Her research has focused on valuing environmental amenities (especially environmental health effects), on the discounting of future health benefits, and on the tradeoffs implicit in environmental regulations. Her recent research focuses on factors affecting deforestation in developing countries and on the externalities associated with motorization. Dr. Cropper is past president of the Association of Environmental and Resource Economists and a former chair of the Advisory Council for Clean Air Act Compliance Analysis, a subcommittee of EPA's Science Advisory Board. She has served on the advisory boards of Resources for the Future, the Harvard Center for Risk Analysis, the Donald Bren School of the Environment and the AEI-Brookings Center on Regulation (12/2003).

Goulder, Lawrence

Stanford University

Dr. Lawrence H. Goulder is the Shuzo Nishihara Professor in Environmental and Resource Economics at Stanford University. He is also a Senior Fellow of Stanford's Institute for International Studies and Institute for Economic Policy Research, a Research Associate at the National Bureau of Economic Research, and a University Fellow of Resources for the Future. He is a member of the EPA's Science Advisory Board's Environmental Economics Advisory Committee. Dr. Goulder's research examines the environmental and economic impacts of U.S. and international environmental policies. He has focused on policies to reduce emissions of "greenhouse gases" that contribute to climate change, and on "green tax reform," revamping the tax system to introduce taxes on pollution and reduce taxes on labor effort or investment. His analyses of environmental policies often employ a general equilibrium analytical framework that integrates the economy and the environment and links the activities of government, industry, and households. His work considers both the aggregate benefits and costs of various policies as well as the distribution of policy impacts across industries, income groups, and generations. Some of his work is interdisciplinary, involving collaborations with climatologists and biologists. Dr. Goulder graduated from Harvard College with an A.B. in philosophy in 1973. He obtained a master's degree in musical composition from the Ecole Normale de Musique de Paris in 1975 and earned a Ph.D. in economics from Stanford in 1982 (12/2003).

Greenstone, Michael

Massachusetts Institute of Technology

Michael Greenstone is as an Associate Professor in the MIT Economics Department and holds the 3M Chair. For the previous 3 years, he has been an Assistant Professor in the Department of Economics at the University of Chicago. He is also a Research Fellow at the American Bar Foundation and a Research Associate at the National Bureau of Economic Research. From 1998 through 2000, he was a Robert Wood Johnson Scholar at the University of California, Berkeley. Greenstone's research is focused on the consequences of government regulation. His primary project is on the Clean Air Act. As a part of this project, he has examined the impacts of this legislation on air quality, manufacturing activity, housing prices, and infant mortality. His work in this area is presently focused on estimating the effect of mandated reductions in pollution emissions on plant-level productivity and exploring whether large or small particles are the source of the association between suspended particulates and infant mortality. Other current projects include examinations of: the economics costs of climate change; the benefits of the Superfund program; the effects of federal antidiscrimination laws on black-white infant mortality rates; the impacts of mandated disclosure laws on equity markets; and, the consequences of local government subsidies to attract manufacturing plants to their jurisdictions. He has also studied the impacts of speed limit laws on mortality rates and average speeds in an effort to estimate the value of a statistical life. His research is funded by the National Institute of Health, National Science Foundation, and Environmental Protection Agency. Greenstone obtained a bachelor of arts with High Honors from Swarthmore College in 1991 where he majored in Economics and minored in Political Science and History. He received a PhD in Economics from Princeton University in 1998 (12/2003)

Hammitt, James

Harvard University

James K. Hammitt is Professor of Economics and Decision Sciences and Director of the Harvard Center for Risk Analysis. He holds appointments in the Department of Health Policy and Management and the Department of Environmental Health and is co-director of the Program in Environmental Science and Risk Management at the Harvard School of Public Health. His research interests include the development and application of quantitative methods of decision and risk analysis to health and environmental policy. Professor Hammitt studies the management of long-term environmental issues with important scientific uncertainties such as global climate change and stratospheric-ozone depletion, the evaluation of ancillary benefits and countervailing risks associated with risk-control measures, and the characterization of social preferences over health and environmental risks using revealed-preference and contingent-valuation methods. He holds degrees in Applied Mathematics (A.B., Sc.M.) and Public Policy (M.P.P., Ph.D.) from Harvard University. He serves as a member of the U.S. Environmental Protection Agency's Advisory Council on Clear Air Compliance Analysis and served on the American Statistical Association Committee on Energy Statistics (Advisory Committee to the U.S. Energy Information Administration). Professor Hammitt is a member of the American Economic Association, Association of Environmental and Resource Economists, European Group of Risk and Insurance Economists (Geneva Association), and the Society for Risk Analysis. Prior to coming to Harvard, he was Senior Mathematician at the RAND Corporation in Santa Monica. (11.2004).

Hanemann, W. Michael

University of California

Dr. W. Michael Hanemann is Chancellor Professor in the Department of Agricultural and Resource Economics and Goldman School of Public Policy at the University of California, Berkeley. Dr. Hanemann's research interests include non-market valuation, environmental economics and policy, water pricing and management, demand modeling for market research and policy design, the economics of irreversibility and adaptive management, and welfare economics. Dr. Hanemann's recent publications have addressed valuation and management of tropical forests, temporal reliability of estimates from contingent valuation, referendum design and contingent valuation, the economic theory of Willingness To Pay and Willingness To Accept, and the statistical analysis of discrete-response, welfare analysis with discrete choice models. Dr. Hanemann was educated at Oxford University (B.A.), the London School of Economics (M. Sc.), Harvard University, (M.A. in Public Finance and Decision Theory and Harvard University (Ph.D. in Economics).

Helfand, Gloria

University of Michigan

Dr. Helfand is Associate Professor of Environmental Economics and (for January- June 2004) Interim Associate Dean of the School of Natural Resources and Environment at the University of Michigan. Dr. Helfand received her B.A. in English Literature from Swarthmore College (1978), her A.M. in Technology and Human Affairs from Washington University in St. Louis (1981), and her Ph.D. in Agricultural and Resource Economics from the University of California at Berkeley (1988). Prior to coming to her current position in 1996, Dr. Helfand spent 6 years as Assistant Professor of Agricultural Economics and one year as Associate Professor of Agricultural and Resource Economics and Environmental Studies at the University of California at Davis. Before pursuing her Ph.D., she conducted research, analysis, and advocacy on national forest management and floodplain management issues for the Natural Resources Defense Council (1978, 1979-81), and she conducted economic and policy analysis on public lands issues, with an emphasis on national forest management, in the Economic Policy Department of The Wilderness Society (1981-83). Dr. Helfand's primary area of expertise is in environmental and resource economics. Her research interests focus on understanding the effects of different regulatory approaches to pollution policy, environmental policy analysis, and the distributional effects of environmental policy. Dr. Helfand has been an Associate Editor of the Journal of Environmental Economics and Management and presently has that position for the American Journal of Agricultural Economics and Land Economics. She has served on committees for the American Agricultural Economics Association and the Association of Environmental and Resource Economists, and she has been a reviewer for a number of academic journals and grant proposals to the USEPA, USDA, and NSF. She has served on the Environmental Economics Advisory Committee of the US EPA's Science Advisory Board (SAB) since 2001 and was a consultant to the SAB from 1998-2000.

Levinson, Arik

Georgetown University

Dr. Levinson is an Associate Professor in the Economics Department of Georgetown University, where he teaches environmental economics, public finance, and microeconomics, and is Director of Undergraduate Economic Studies. He is a Faculty Research Fellow at the National Bureau of Economic Research, is on the Editorial Council of the Journal of Environmental Economics and Management, and is a member of the American Economic Association, the Association of Environmental and Resource Economists, and the Association for Public Policy Analysis and Management. Professor Levinson's research interests include the fields of traditional public finance and environmental economics. He has studied the theoretical welfare consequences of states competing to attract manufacturers by enacting successively less stringent environmental standards (a "race to the bottom"), and measured empirically the effects of interstate differences in environmental standard stringency on manufacturer location decisions, trade, employment, and foreign direct investment. Recently, he has written theoretical and empirical papers on the relationship between countries' environmental quality and their incomes, he has studied the energy efficiency consequences of apartment leases that include monthly utility costs, and he has written about the relationship between individuals' willingness to pay for environmental quality, household income, and national income. Dr. Levinson holds a B.A. in Economics from Harvard College, and a Ph.D. in Economics from Columbia University. <http://www.georgetown.edu/faculty/aml6/>

Opaluch, James

University of Rhode Island

Dr Opaluch is a professor of Environmental Economics at the University of Rhode Island. He received a Ph.D. in Economics and Masters Degree in Statistics both from the University of California, Berkeley. Dr. Opaluch has been actively involved in issues related to natural resource and environmental policy for many years. Dr. Opaluch is an internationally recognized expert in natural resource valuation and damage assessment, and has served as an expert witness in over 20 major natural resource damage assessment cases. Other projects include development of the original Type A model for assessing natural resource damages under CERCLA (incorporated in Federal Regulations); evaluation of the potential social costs of the national five-year offshore oil and gas leasing program; comprehensive assessments of proposed national environmental regulations; development of a methodology for landfill siting for the state of Rhode Island, and estimating uses and values of the Peconic Estuary System as part of the National Estuaries Program. Dr Opaluch was recently invited to serve on the United Nations Environmental Program's Working Group of Consultative Experts to provide advice and training to policy professionals throughout the world. Dr. Opaluch has served on a number of national committees, including National Academy of Science panel to assess the OCS Environmental Studies Program, National Academy of Science Panel on PCB Contamination Sites, National Academy of Science committee on wetlands productivity, National Academy of Science committees to assess the adequacy of environmental information on Georges Bank, South Florida, California and Alaska, the U.S. Minerals Management Service Social Science Research Panel, and Governing Board Associate of the American Agricultural Economics Association. Dr Opaluch has served in a variety of professional capacities, including Associate Editor of the American Journal of Agricultural Economics, President of the Northeast Agricultural and Resource Economics Association, Vice President of the Association of Environmental and Resource Economists, Associate Editor of the American Journal of Agricultural Economics, Associate Editor of the Journal of Environmental Economics and Management, Editorial Board of the Agricultural and Resource Economics Review and Director of the Northeast Agricultural and Resource Economics Association. Dr. Opaluch been recipient of various awards, including Research Scientist of the Year at the University of Rhode Island, College of Resource Development, Outstanding Service Award from the Northeast Association of Agricultural and Resource Economics, Outstanding Dissertation Award of the American Agricultural Economics Association and has served as advisor to four Theses that were winners of the American Agricultural Economics Association thesis awards. Dr. Opaluch has received research support from many private corporations and federal agencies, including the National Science Foundation, the U.S. Environmental Protection Agency, the U.S. Department of the Interior, and the National Oceanic and Atmospheric Administration. Dr. Opaluch has authored or co-authored numerous papers in refereed journals, including the Journal of Environmental Economics and Management, the Rand Journal of Economics, American Journal of Agricultural Economics, Land Economics, Applied Economics, Coastal Management, Natural Resource Journal, Marine Resource Economics, and Oil and Chemical Pollution and has written many technical reports and chapters in books. His publications have made important contributions to basic knowledge and to public policy applications on issues of national, international and global significance (12/2003).

Polasky,Stephen

University of Minnesota

Dr. Stephen Polasky holds the Fesler-Lampert Chair in Ecological/ Environmental Economics at the University of Minnesota. He is a faculty member of the Department of Applied Economics and of the Department of Ecology, Evolution and Behavior and the Interdisciplinary Conservation Biology Program. He received his Ph.D. in economics from the University of Michigan in 1986. Prior to coming to Minnesota he held faculty positions in the Department of Agricultural and Resource Economics at Oregon State University and the Department of Economics at Boston College. He was the senior staff economist for environment and resources for the President's Council of Economic Advisers 1998-1999. He served as associate editor and co-editor for the Journal of Environmental Economics and Management from 1996 to 2002. He is currently serving as a member of the Committee on Valuing the Protection of Ecological Systems and Services of U.S. EPA's Science Advisory Board, as a member of the Environmental Economics Advisory Committee of U.S. EPA's Science Advisory Board, as a member on a National Research Council Committee on Assessing and Valuing Services of Aquatic and Related Terrestrial Ecosystems, and as Co-Chair for Core Project 3: Developing the Science of Conservation and Sustainable Use of Biodiversity for DIVERSITAS. His research interests include biodiversity conservation and endangered species policy, integrating ecological and economic analysis, game theoretic analysis of natural resource use, common property resources, and environmental regulation. Since 2000 he has received grant support from NSF for two biocomplexity grants (Greater Serengeti: humans in a biologically diverse ecosystem; Flow, fish, fishing: disparate scales of process make nearshore fishery management a difficult task), the USDA Forest Service for three cooperative agreements (Predicting ecological and social impacts of riparian landuse in a north central lakescape; Open space and property values: an urban economics model with application to the Twin Cities Region; Developing a collaborative modeling approach to assess biological and economic effects of land use decisions and pollution mitigation), a cooperative agreement with the Minnesota Department of Natural Resources (Landowner contact and incentives for Topeka shiner conservation) and support from two research grants with US EPA (Land management with biological and economic objectives; Developing methods and tools for watershed restoration design, implementation, and assessment in the Willamette Basin, Oregon).

Segerson,Kathleen

University of Connecticut

Dr. Kathleen Segerson is Professor and Head in the Department of Economics at the University of Connecticut. Prior to coming to the University of Connecticut, Professor Segerson was an assistant professor of Natural Resource Economics at the University of Wisconsin. She is currently a co-editor of the Ashgate Studies in Environmental and Natural Resource Economics, and a member of the editorial board of the International Yearbook of Environmental and Resource Economics and Contemporary Economic Policy. She has previously served as a co-editor and an associate editor of the American Journal of Agricultural Economics and an associate editor of the Journal of Environmental Economics and Management. She has also served as Vice-President and a member of the Board of Directors of the Association of Environmental and Resource Economists (AERE), and on several other subcommittees for AERE and the American Agricultural Economics Association (AAEA). Dr. Segerson's research focuses on the incentive effects of alternative environmental policy instruments, with particular emphasis on the application of legal rules and principles to environmental problems. Specific research areas include: the impact of legal liability for environmental damages in a variety of contexts, including groundwater contamination, hazardous waste management, and workplace accidents; land use regulation and the takings clause; voluntary approaches to environmental protection; the impacts of climate change on U.S. agriculture; and incentives to control nonpoint pollution from agriculture. Dr. Segerson received a BA degree in mathematics from Dartmouth College in 1977 and a PhD in agricultural and natural resource economics from Cornell University in 1984 (12/2003).

Sigman,Hilary

Rutgers University

Dr. Sigman is an associate professor of economics at Rutgers University in New Brunswick and a faculty research fellow of the National Bureau of Economic Research. She currently serves on the Environmental Economics Advisory Committee of the U.S. EPA's Science Advisory Board (SAB), the Editorial Council of the Journal of Environmental Economics and Management, and the Board of Directors of the Association of Environmental and Resource Economists. She has also served on the RCRA/UST Benefits, Costs, and Impacts Review Committee of the EPA SAB. Dr. Sigman was previously an assistant professor of economics at the University of California, Los Angeles. She has taught at Yale and the University of Michigan and held fellowships at Resources for the Future and the Hoover Institution. Dr. Sigman's research examines the empirical effects of environmental policies. Among other subjects, she has studied "green taxes" for hazardous and solid waste, the application of legal liability under Superfund, and transboundary water pollution. Dr. Sigman holds a B.A. in Economics and Studies in the Environment from Yale College, an M.Phil. in Economics from Cambridge University (U.K.), and a Ph.D. in Economics from the Massachusetts Institute of Technology.